SEMESTER EXAMINATION, DECEMBER -2022

Course Name: - B.Tech.(Non CSE) **Semester: - 1ST**

Paper Name: - Manufacturing Process **Paper Code: - TES-104**

Time - 2 Hrs + 20 minutes per hour extra time for V.I. & examinees with writer. **Max Marks-70**

समय– 2 घण्टे + 20 मिनट प्रति घंटे अतिरिक्त–दृष्टिबाधित एवं सह लेखक परीक्षार्थियों के लिए। अधिकतम अंक–70

Instructions:

- The question paper consists of three sections namely A, B, C. All sections are compulsory.
- Section A- Each question carries **04** marks. All questions are compulsory.
- Section B- Answer any **2 out of 4** given questions in maximum hundred **(150) words**. Each question carries **10 marks**.
- Section C- Answer any **2 out of 3** given questions in maximum five hundred **(250) words**. Each question carries **15 marks**.

निर्देश:

- प्रश्न पत्र में तीन खण्ड अ, ब, व स हैं। सभी खण्ड अनिवार्य हैं।
- खण्ड–अ में प्रत्येक प्रश्न **चार** अंक का है। सभी प्रश्न अनिवार्य हैं।
- खण्ड–ब में **चार** प्रश्नों में से किन्हीं **दो** प्रश्नों के उत्तर अधिकतम **डेढ़ सौ** (150) शब्दों में दें। प्रत्येक प्रश्न 10 अंक का है।
- खण्ड–स में **तीन** प्रश्नों में से किन्हीं **दो** प्रश्नों के उत्तर अधिकतम **ढाई सौ** (250) शब्दों में दें। प्रत्येक प्रश्न 15 अंक का है।

Section – A (खण्ड–अ)

Objective Questions(वस्तुनिष्ठ प्रश्न)

1. Answer all the following questions. **5×4=20**

निम्नलिखित सभी प्रश्न अनिवार्य हैं।

i) What is the Latin meaning of factus word in manufacturing?
(a) Make
(b) Hand
(c) Man
(d) Palm

ii) Rivet joint is type of
(a) Temporary
(b) Semi permanent
(c) Permanent Joint
(d) None of these

iii) A taper provided on the pattern for its easy and clean withdrawal from the mould is known as
(a) Shrinkage allowance
(b) Draft allowance
(c) Distortion allowance
(d) Machining allowance

(iv) Weld spatter is a welding defect due to
(a) Lack of flux
(b) High welding speed
(c) High welding current
(d) Dirty metal surface

(v) Pure form of iron in solidified is
(a) Pig iron
(b) Cast iron
(c) wrought iron
(d) None of the above

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Section – B (खण्ड–ब)
Short Answer Questions (लघुउत्तरीय प्रश्न)

2. Answer any two of the following questions in maximum 150 words. **10×2=20**
निम्नलिखित में से किन्हीं दो प्रश्नों के उत्तर अधिकतम 150 शब्दों में दें।

i) What do you understand the word manufacturing? Why do you read manufacturing process describe with suitable example with applications?

ii) What is Pattern making in casting process describe with example?

iii) Explain the defects in casting with their reasons. How these defects can be prevented?

iv) Write short notes on?
   i. Hot working and cold working of metal?
   ii. Straight polarity and reverse polarity?

Section – C (खण्ड–स)
Descriptive Questions (विवरणात्मक प्रश्न)

3. Answer any two of the following question in maximum 250 words. **2×15=30**
निम्नलिखित में से किन्हीं दो प्रश्नों के उत्तर अधिकतम 250 शब्दों में दें।

i) Describe with neat sketch the working principle of Arc welding. Mention its advantages and disadvantages.

ii) Explain the following lathe operation with neat sketch?
Drilling, Reaming, Threading, Parting, Grooving, Knurling, Turning

iii) (a) Write down about Primary shaping process and Machining process with the help of suitable diagram and example?

(b) Write down about Metal forming process, joining or assembly process and surface finishing process with the help of suitable diagram and example?

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